

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

Product name **TrichoPlus®**

### Technical Material for a biological control agent

Supplier of Technical Material **BASF Agricultural Specialities (Pty) Ltd**

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Product characterisation Spore concentrate of mycoparasitic fungus *Trichoderma fertile* (strain JM41R), approx.  $2 \times 10^9$  conidia/g powder.

## 3. HAZARDS IDENTIFICATION

### Health effects

Skin Non-irritant.

Eyes Non-irritant.

Inhalation Not an inhalation hazard under normal conditions of use. Certain individuals may become sensitised to this material, as with any other proteinaceous dust.

Ingestion Low toxicity product. It is extremely unlikely that a sufficient quantity would be accidentally swallowed to cause any harm.

Physical/chemical effects None known

## 4. FIRST AID MEASURES

Skin contact Wash with water and soap as a precaution.

Eye contact Irrigate the eye with water for 15 minutes. If any irritation persists obtain medical attention.

Inhalation Clear any blocked airways. Remove affected person to fresh air. Seek medical advice if any signs of sensitisation (pain in chest, headache, flu like symptoms), anaphylactic shock for the hypersensitive or recovery is delayed.

## 5. FIRE-FIGHTING MEASURES

Extinguishing media Foam, dry powder, carbon dioxide, or water spray.

Extinguishing media which must not be used for safety reasons Not applicable.

Special exposure hazards This product does not burn readily, but as with many organic powders, flammable dust clouds may be formed in air. Avoid creating dust and keep away from sources of ignition.

Special protective equipment Chemical protections suit, suitable gloves and boots, and self-contained for fire-fighters breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use respiratory protection and protective clothing. Ensure adequate ventilation.
Environmental precautions	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Use a suitable vacuum cleaner, to avoid the generation of airborne dust. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Dampen air by spraying a fine mist of water to make the spores heavier and create less air borne dust.

## 7. HANDLING AND STORAGE

Handling precautions	Do not eat, drink or smoke whilst handling the product. Avoid formation of fine particles. The product swells on contact with water -Do not wear contact lenses.
Storage conditions	Avoid wet and humid conditions. Store away from light in a cool, dry and dark place. The active ingredient remains viable to up to 9 months when stored at 4°C.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters	Dust: 10mg/m <sup>3</sup> 8 -hour TWA total inhalable dust. 4mg/m <sup>3</sup> 8 -hour TWA respirable dust.
Engineering measures	Local exhaust ventilation required if dust is created.
Personal protection equipment.	
Respiratory protection	Effective dust mask (e.g. 3M Dust Respirator: 8810).
Hand protection	Rubber or plastic gloves if necessary due to allergic reaction
Eye protection	Goggles.
Skin and body protection	Lightweight protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Colour	Grey / Green
Form	Powder
Odour	None.
pH as supplied	Not applicable.
Boiling point/range	Not applicable.
Melting point/range	Not applicable. .
Flash point	Not applicable.
Flammability (solid, gas)	Not determined.
Autoignition temperature	Not determined.
Explosive properties	This product has no explosive properties, except in the event of dust formation.
Oxidising properties	Not an oxidiser.
Vapour pressure	Not applicable.
Solubility: Water solubility	Insoluble, water miscible.
Partition coefficient (n-octanol/water)	Not applicable.
Other data	

## 10. STABILITY AND REACTIVITY

Stability	Stable at ambient temperatures.
Conditions to avoid	Avoid extremes of temperature and wet and humid conditions.
Materials to avoid	No special precautions other than good housekeeping of chemicals.

Hazardous decomposition products      No decomposition if stored normally.

## **11. TOXICOLOGICAL INFORMATION**

Acute toxicity:	LD <sub>50</sub> /ORAL/RAT (Limit test)>2000mg/kg
Eye irritation:	Minimal irritation (rabbit)
Skin irritation:	Non-irritant (rabbit)
Acute pulmonary toxicity/infectivity:	Non-infective to mammals (rat).
Acute intra -peritoneal injection:	Non-infective to mammals (rat).
Mutagenicity:	Not tested

## **12. ECOLOGICAL INFORMATION**

Occurs naturally in the environment. Pathogenic to plant parasitic fungi

## **13. DISPOSAL CONSIDERATIONS**

Unwanted material may be buried in the ground or disposed of as non-hazardous waste in accordance with local regulations.

## **14. TRANSPORT INFORMATION**

Road/rail	Not classified as dangerous in the meaning of transport regulations
IMDG	Not classified as dangerous in the meaning of transport regulations
ICAO	Not classified as dangerous in the meaning of transport regulations
ADR	Not classified as dangerous in the meaning of transport regulations.

## **15. REGULATORY INFORMATION**

Supply classification	
Hazard symbol(s)	None
Risk phrases	May cause sensitisation by inhalation
Safety phrases	When handling or spraying wear suitable respiratory equipment and wash hands after contact with product.

## **16. OTHER INFORMATION**

Recommended use	Active ingredient for biological control of plant pathogenic fungi.
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Further information

Product classified and safety data sheet produced according to EEC directives as implemented by the Chemicals (Hazards Information and Packaging) Regulations.

*The information contained in this safety data sheet is given in goodfaith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.*